

DERWENT-ACC-NO: 1990-262500

DERWENT-WEEK: 199035

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TITLE: Spring assisted lid
opening mechanism - has compression
spring mounted and
acting between two bearing points on
housing or lid

INVENTOR: HEUCHEMER, K

PATENT-ASSIGNEE: WEISBENDER GMBH & CO KG
HELMUT [WEISN] , WEISBENDER H
GMBH [WEISN]

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PATENT-FAMILY:

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EP 384484 A		August 29, 1990	
N/A		000	N/A
DE 3905870 A		August 30, 1990	
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DE 3905870 C2		June 9, 1993	
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 N/A 000 E05F 001/10

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 G 007 E05F 001/10

DESIGNATED-STATES: DE FR GB IT NL DE DK FR
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DE 715357 ; FR 1467870

APPLICATION-DATA:

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APPL-NO	APPL-DATE
EP 384484A	N/A
1990EP-0103574	February 23, 1990
DE 3905870A	N/A
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DE 59002780G	N/A
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DE 59002780G	N/A
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EP 384484	N/A
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E05F001/10 , E05F007/06

ABSTRACTED-PUB-NO: DE 3905870C

BASIC-ABSTRACT:

lid
The *Container* housing (12) with a hinged lid (14) has a spring assisted mechanism which holds the lid (14) in the open position. *Compression link*
The mechanism consists of a compression spring (22) enclosed in the housing. The closed end of the housing is pivoted to the lid at a point (20). A rod which is subjected to the force of the spring is connected to two links (26,30).

bearing points
One link (30) is pivoted to the housing, whilst the other link (26) is pivoted to the lid at a point (24). When the lid is closed the spring housing and the link lie on the straight line, which passes through the two bearing points (20,24) so that no opening force is exerted on the lid.

USE/ADVANTAGE - For box trailers, car boots etc, with low-cost design for reliable closure.

ABSTRACTED-PUB-NO: EP 384484A

EQUIVALENT-ABSTRACTS:

Lid opening mechanism comprises compression spring and first and second lever arms movably interconnected at their free ends at comon point. Spring and

first arm are mounted at first and second bearing points to both sides of lid and housing and the other arm is carried on the lid and housing and its free end engages the spring at the common connection point. When closed the common connection point (28) should lie in a straight line between first (20) and second (24) bearing points so the spring (22) force acts on the two bearing points (20,24) only and the lever arm (30) is out of load. Spring (22) and lever arms (26,30) are carried on a bearing bolt (20,24,32) on lid or housing. The two bolts (20,24), taking the spring load when closed, are arranged on a firm one-piece metal baseplate (18).

USE/ADVANTAGE - Car trailer containers etc. Spring and lid lever arms give load-relieved closed and positively supported open settings in symmetrical design.

EP 384484B

Opening mechanism for the pressure spring-assisted actuation of a wing, particularly a coverer (14), pivotably articulated on a wall or on a casing between an open position and a closed position, with a pressure spring (22), which is mounted between a first bearing point (20) on the cover (14) or casing (12) and a connecting point (28) of a first and second lever arm (26, 30), the

free end of the first lever arm (26) being articulated in a second bearing point (24) on the cover (14) or the casing (12), characterized in that in the closed position the connecting point (28) and therefore also the pressure spring (22) is substantially axially located between the first and second bearing point (20, 24) located either on the casing (12) or on the cover (14) with the force action of the pressure spring (22) substantially between the two bearing points (20, 24), that the free end of the second lever arm (30) is mounted in a third bearing point (32) and that the third bearing point (32) is placed on the casing (12) or on the cover (14). 23y

CHOSEN-DRAWING: Dwg.1/2 Dwg.1/2 Dwg.1/2

TITLE-TERMS: SPRING ASSIST LID OPEN
MECHANISM COMPRESS SPRING MOUNT ACT TWO
BEARING POINT HOUSING LID

DERWENT-CLASS: Q33 Q34 Q47

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